

भारतीय मानक

IS 8995 : 2023

Indian Standard

वरुन्नादि — फैन बेल्ट और वी-बेल्ट के लिए
कॉटन आवरण कपड़ा — विशिष्टि

(पहला पुनरीक्षण)

**Textiles — Cotton Cover Fabrics for
Fan Belts and V-Belts —
Specification**

(*First Revision*)

ICS 59.080.30

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भारतीय मानक ब्यूरो

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Industrial Fabrics Sectional Committee had been approved by the Textiles Division Council.

This standard was first published in 1979. The present revision has been made in the light of experience gained since its publication and to incorporate the following major changes:

- a) Title of the standard has been modified.
- b) The requirement of moisture content has been excluded.
- c) Marking, packing and sampling clauses have been modified.
- d) References to Indian Standards have been updated.

The composition of the Committee responsible for the formulation of this standard is listed in Annex D.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***TEXTILES — COTTON COVER FABRICS FOR FAN BELTS
AND V-BELTS — SPECIFICATION***(First Revision)***1 SCOPE**

1.1 This standard prescribes here requirements of cotton cover fabrics used in the manufacture of fan belts and V-belts.

1.2 This standard also gives the constructional particulars of a few popular varieties of cotton cover fabrics for information only.

2 REFERENCES

The standards listed in Annex A contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

3 MANUFACTURE**3.1 Yarn**

The yarn used in the manufacture of cover fabrics shall be satisfactory in evenness and shall be reasonably free from neps, spinning and doubling defects.

3.2 Cloth

The cloth shall be evenly and firmly woven in plain weave. The cloth when visually examined shall be reasonably free from foreign matter and such defects as knots, lumps and irregularities of twist in yarn.

4 REQUIREMENTS

4.1 The cotton cover fabrics shall conform to the requirements given in Table 1.

Table 1 Requirements of Cotton Cover Fabrics
(Clause 4.1)

Sl No.	Mass (see Note) g/m ² , Min	Breaking Strength		Ravelled Strip, N
		Warp	Weft	
(1)	(2)	(3)	(4)	
i)	251 to 300	550	550	
ii)	301 to 350	850	850	
Method of Test	IS 1964	IS 1969 (Part 1)	IS 1969 (Part 1)	

NOTE — The synthetic fabrics meeting the required breaking strength values may have mass about 1/3rd of the corresponding cotton fabrics

4.2 The various constructional particulars of cover fabrics shall be as agreed to between the buyer and

the seller subject to the following tolerances when tested by the methods shown against them:

Sl No.	Parameter	Tolerance, Percent	Method of Test
(1)	(2)	(3)	(4)
i)	Ends	± 2.5	IS 1963
ii)	Picks	± 5	IS 1963
iii)	Mass	± 5	IS 1964
iv)	Thickness	± 10	IS 7702
v)	Length	+1 -0.5	IS 1954
vi	Width	± 2	IS 1954

4.2.1 The constructional particulars of a few popular varieties of cotton cover fabrics are given in Annex B for information only.

4.3 The cover fabrics shall be starch free when tested by the method given in Annex C.

5 PACKING

The cloth shall be made into tight rolls form on a spool. The length shall be as agreed to between the buyer and the seller. The rolls shall be tightly wrapped with a layer of polyethylene film and hessian and sewn tightly all over or as agreed to between the buyer and the seller. If necessary, additional layers of packing materials may be used to avoiding rest of moisture in transit.

6 MARKING

Each roll shall be marked with the following:

- a) Name of the material;
- b) Name of the manufacturer, initials or trade-mark, if any;

- c) Length and width of roll;
- d) Year of manufacture; and
- e) Any other information as required by the law in force or as agreed between the buyer and the seller.

6.1 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed there under, and the product(s) may be marked with the Standard Mark.

7 SAMPLING

7.1 For ascertaining the conformity in respect of length, width, breaking load, mass, ends, picks and thickness, the number of tests and criteria for conformity as given in IS 3919 shall be followed.

7.2 For ascertaining the conformity in respect of freedom from starch, the number of tests and criteria for conformity as given in IS 5463 shall be followed.

ANNEX A
(Clause 2)

LIST OF REFERRED STANDARDS

<i>IS No</i>	<i>Title</i>	<i>IS No</i>	<i>Title</i>
IS 1954 : 1990	Determination of length and width of woven fabrics — Methods (<i>second revision</i>)	IS 3919 : 1966	Methods for sampling cotton fabrics for determination of physical characteristics
IS 1963 : 1981	Methods for determination of threads per unit length in woven fabrics (<i>second revision</i>)	IS 5463 : 2022	Methods for sampling of cotton fabrics for chemical tests (<i>first revision</i>)
IS 1964 : 2001	Textiles — Methods for determination of mass per unit length and mass per unit area of fabrics (<i>second revision</i>)	IS 7702 : 2012/ISO5084-1996	Textiles — Determination of thickness of textiles and textile products (<i>first revision</i>)
IS 1969 (Part1) : 2018/ISO13934-1 : 2013	Textiles — Tensile properties of fabrics: Part 1 Determination of maximum force and elongation at maximum force using the strip method (<i>fourth revision</i>)		

ANNEX B
(*Clause 4.2.1*)

CONSTRUCTIONAL PARTICULARS OF POPULAR VARIETIES OF COTTON CHAFER FABRICS

Variety No.	Approximate Count of Yarn		Ends per dm	Picks per dm	Mass g/m²	Thickness mm
	Warp	Weft				
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	42 tex \times 2 (14s/2)	42 tex \times 2 (14s/2)	150	150	275	0.55
2	100 tex(6s)	100 tex (6s)	142	138	315	0.65
3	42 tex \times 2 (14s/2)	42 tex \times 2 (14s/2)	158	158	325	0.55

ANNEX C
(*Clause 4.3*)

METHOD FOR DETERMINING STARCH CONTENT C-I TEST SPECIMEN

C-1 Cut a piece weighing about 10 g from the test sample. Shred the piece into small bits and mix them thoroughly. Draw from the pieces so shredded a test specimen of about 5 g.

C-2 PROCEDURE

C-2.1 Boil the test specimen in about 200 ml of distilled water in a conical flask for about 45 min.

Cool the contents in the flask. Put a drop of iodine solution on a smaller quantity taken from the flask.

C-3 REPORT

C-3.1 Observe whether there is any appearance of blue colour on adding a drop of iodine solution. Report the material to be free from starch if no blue colour is observed.

ANNEX D
(Foreword)

COMMITTEE COMPOSITION

Technical Textiles for Industrial Fabrics Sectional Committee, TXD 33

<i>Organization</i>	<i>Representative(s)</i>
PSG College of Technology, Coimbatore	DR G. THILAGAVATHI (Chairperson)
Ahmedabad Textile Research Association, Ahmedabad	SHRIMATI DEEPALI PLAOWAT SHRI JIGAR DAVE (<i>Alternate</i>)
Central Coir Research Institute, Alappuzha	DR ANITA JACOB SHRIMATI SUMI SABESTIAN (<i>Alternate</i>)
Director General of Quality Assurance, Mumbai	SHRI PURUSOTTAM DE
DKTE Centre of Excellence in Nonwovens, Kolhapur	SHRI ANIKET SBHUTE
Entermonde Polycoaters Limited, Nashik	DR K. M. S. REDDY SHRI AJEY GODBOLE (<i>Alternate</i>)
Garware Technical Fibres Limited, Pune	SHRI S.J. CHITNIS SHRI RAJENDRA GHADGE (<i>Alternate</i>)
ICAR-National Institute of Natural Fibre Engineering & Technology, Kolkata	DR MANIK BHOWMICK DR SANJOY DEBNATH (<i>Alternate</i>)
Indian Technical Textile Association, Mumbai	DR ANUP RAKSHIT SHRIMATI RUCHITA GUPTA (<i>Alternate</i>)
Kirti Filtration and Automation Pvt Ltd, Vadodara	SHRI KULIN MASTURLAL SHRIMATI KIRTI MASTURLAL (<i>Alternate</i>)
Kusumgar Corporates Pvt Ltd, Mumbai	SHRI Y.K. KUSUMGAR DR M.K. TALUKDAR (<i>Alternate</i>)
Masturlal Private Limited, Mumbai	SHRI SHRAMIK MASTURLAL
Office of the Textile Commissioner, Mumbai	SHRI NAROTTAM KUMAR SHRI AMAR K. CHAPHPKAR (<i>Alternate</i>)
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Patel Polypack, Ahmedabad	SHRI KALPESH PATEL
Plast India Foundation, Mumbai	SHRI SURENDER CHOUDHARY DR E. SUNDARESAN (<i>Alternate</i>)
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Reliance Industries Limited, Navi Mumbai	SHRI MAHESH C. SHARMA SHRI RAJENDREN SUBRAMANIAN (<i>Alternate</i>)
Salva Laminates Ltd, Vapi	SHRI NIMESH SALVA
SRF Limited, Gurugram	SHRI A.R. RAJESH SHRIMATI ANGELINA DIVYA (<i>Alternate</i>)
Textiles Committee, Mumbai	SHRI J.D. BARMAN SHRI GANESH P. BANGAR (<i>Alternate</i>)
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BIS Directorate General	SHRI J. K. GUPTA, SCIENTIST 'E'/DIRECTOR AND HEAD (TEXTILES DEPARTMENT) [REPRESENTING DIRECTOR GENERAL(<i>Ex-officio</i>)]
	<i>Member Secretary</i> SHRI DHARMBEER SCIENTIST 'C'/DEPUTY DIRECTOR TEXTILES DEPARTMENT, BIS

Bureau of Indian Standards

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